



56th Street & Earll Drive

Water Quality Assurance Revolving Fund (WQARF) Site
Phoenix, Arizona

Community Involvement Plan



56th Street & Earll Drive WQARF Site Treatment Plant at Grand Canal

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Disclaimer: All telephone numbers, email addresses, and contact names are subject to change after the date of this publication. The statistical data provided in the community demographics section is approximated based on information provided by the 2010 U.S. Census.

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Community Involvement Plan – Introduction

The Arizona Department of Environmental Quality (ADEQ) is committed to involving citizens in the cleanup of contaminated sites in Arizona per the Water Quality Assurance Revolving Fund (WQARF) program. Created under the Environmental Quality Act of 1986 to support hazardous substance cleanup efforts in the state, WQARF is dependent upon legislative appropriations, cost recovery from responsible parties, corporate income taxes, and special fees for its funding.

The WQARF program identifies sites that are most in need of cleanup and adds them to the WQARF Registry. Sites on the WQARF Registry receive primary consideration for the distribution of funds for investigation and cleanup. WQARF Registry sites are assigned a numeric score based on several factors including the types of contaminants present, the location of the contaminants, and the number of people who may be affected by the contaminants. These scores are used to help determine relative risk at the site and do not necessarily mean that there is a direct risk to humans or the environment.

The 56th Street & Earll Drive site, located in Phoenix, Arizona, was placed on the WQARF Registry in June 2004 with a score of 40 out of a possible 120.

Arizona Revised Statutes (A.R.S.) § 49-287.03(B) and § 49-289.03, as well as Arizona Administrative Code (A.A.C.) R18-16-404, specify that a community involvement plan (CIP) be developed for each site before beginning the Remedial Investigation. The purpose of the CIP is to provide a meaningful process for two-way communication between ADEQ and the public in order to keep the community informed about the progress of the site investigation and remediation. The CIP will accomplish this goal using the following steps:

1. Ensure public access to project information in a timely manner;
2. Identify a community involvement area and opportunities for community members and other stakeholders to participate in the decision-making process associated with the environmental investigation and remediation of the site;
3. Establish a Community Advisory Board (CAB);
4. Designate an ADEQ spokesperson; and
5. Develop a plan for distributing site information to residents within the site's community involvement area.

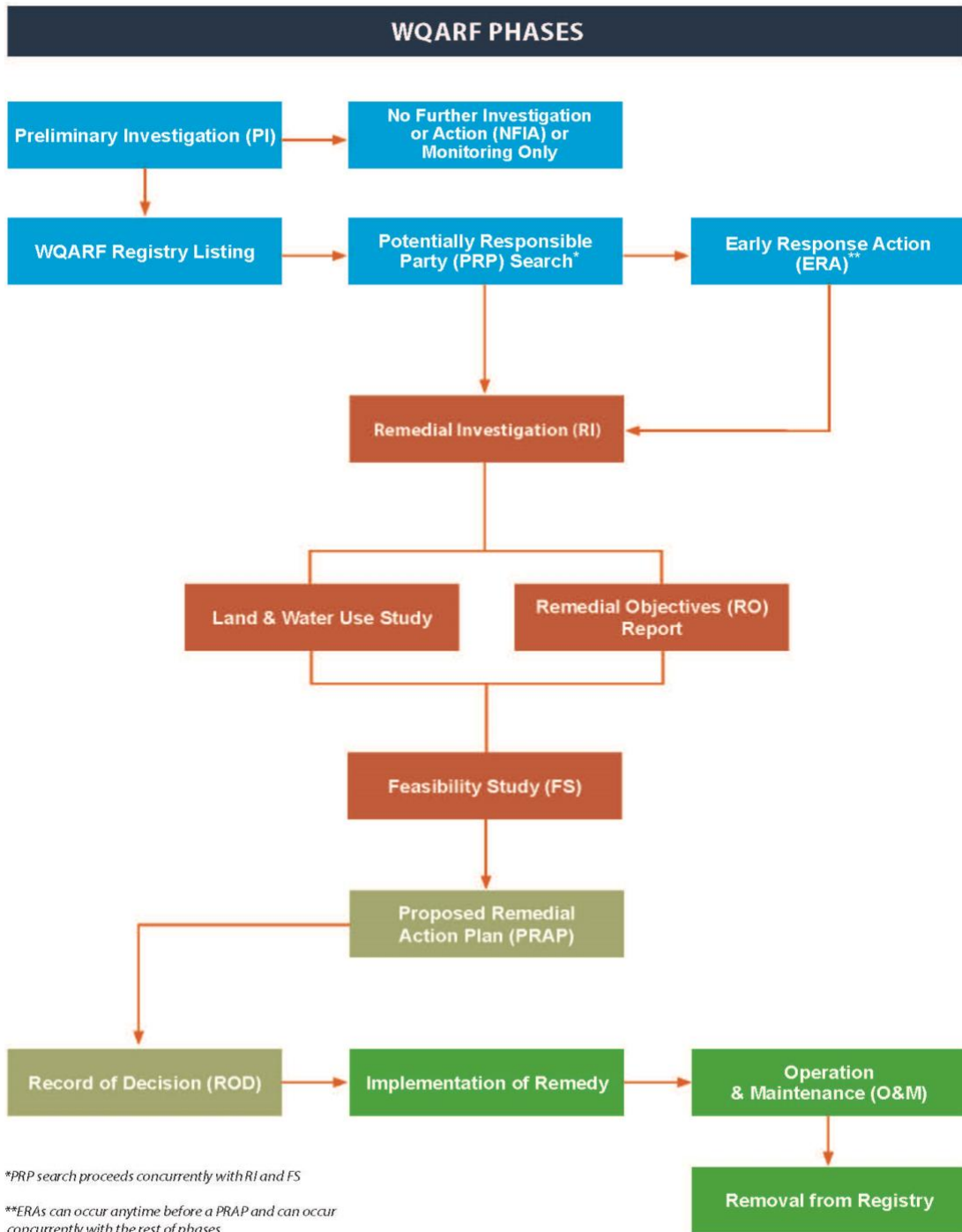
This CIP will describe ADEQ's role and public participation opportunities regarding the WQARF process. ADEQ community involvement staff will review and update this plan on a regular basis taking into consideration site-specific developments and public health and environmental impacts, as well as public comments and community concerns. ADEQ also will solicit and consider CAB input to this CIP.

A. WQARF Process

The goal of the WQARF process is to clean up sites with groundwater and/or soil contamination as a means to ensure that human health and the environment are protected. The WQARF process uses a step-by-step approach to thoroughly investigate contaminated sites and determine the best method for achieving site cleanup. This process can take months, years, or in some cases, decades, to complete. Because each site is different, the WQARF process helps determine which cleanup method is best for a specific site.

For sites where the contamination has minimal impact to humans, cleanup may be achieved by restricting land or water use and allowing the contamination to dissipate naturally. For this method, regular monitoring of the groundwater or soil would occur to ensure that the contamination continues to decrease. For sites where the contamination may impact human health, the cleanup method may involve restricting land or water use, actively treating or filtering the groundwater to remove contamination, digging up any contaminated soil and removing it from the area, bioremediation/other in situ methods, or a combination of these actions.

The following WQARF process flow chart that follows depicts different phases in the WQARF process, from the initial investigation of a site that is suspected of having contamination, to the implementation of the cleanup method (also known as the remedy), to finally the eventual removal of the site from the WQARF Registry upon satisfactory cleanup. Detailed definitions of each WQARF phase can be found in the glossary at the end of this CIP.



B. Designated Spokesperson

A designated spokesperson will inform the public of upcoming events, ensure that the CIP is implemented according to schedule, and act as liaison between ADEQ and the community. Additionally, the spokesperson will determine methods for personal contact, arrange for the availability of a translator at meetings as needed, and coordinate the recording of presentations. For further information regarding the 56th Street & Earll Drive WQARF site, please contact the designated spokesperson at the following:

Community Involvement Coordinator

ADEQ

1110 West Washington Street, 6th Floor

Phoenix, AZ 85007

(602) 771-4189

Or

(800) 234-5677, Ext. 6027714189

Fax: (602) 771-4272

View Community Involvement Contacts Online:

<http://www.azdeq.gov/WQARF>

C. Information Repository and Website

An information repository of existing public documents pertaining to the 56th Street & Earll Drive WQARF site is available for review both online and in person. Documents found in the repository include the WQARF Site Registry Report and the Groundwater Remediation System Operation and Maintenance Plan, as well as public notices and materials from CAB meetings. Technical documents relating to future milestones in the WQARF process will be made available to the public as they are completed. Interested parties can review site information by visiting the information repository online or in person as follows:

Online

<http://www.azdeq.gov/node/823>

In Person

ADEQ Records Center

1110 West Washington Street

Phoenix, AZ 85007

(602) 771-4380

Or

(800) 234-5677, Ext. 6027714380

(Please call to make an appointment.)

To make alternate arrangements to review documents in person at the location nearest you, contact the ADEQ Community Involvement Coordinator.

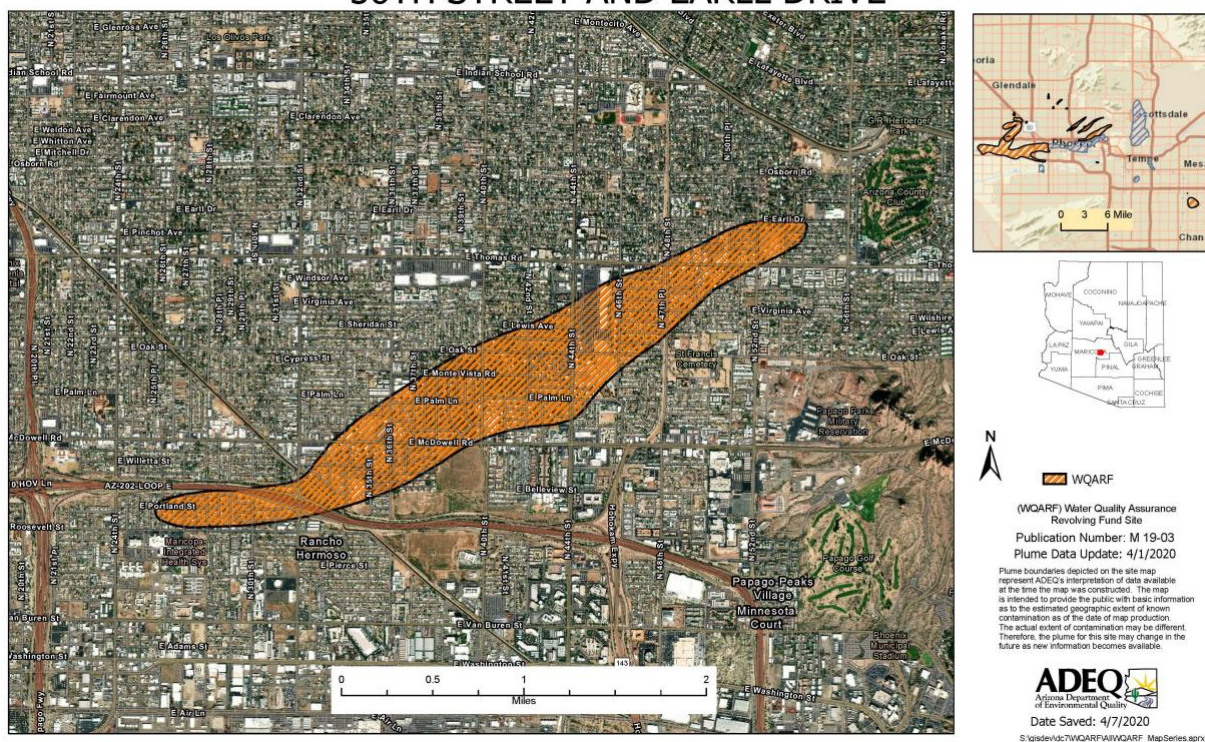
Chapter 1 – Site Overview

The 56th Street & Earll Drive WQARF site is located in Phoenix, Arizona. The site was placed on the WQARF Registry in June 2004 with an eligibility and evaluation score of 40 out of a possible total of 120. The major factor leading to the site score was the presence of volatile organic compounds in groundwater at levels exceeding Arizona Aquifer Water Quality Standards.

This site is bounded by Earll Drive to the north, Roosevelt Street to the south, 56th Street to the east, and 26th Street to the west.

56th Street & Earll Drive WQARF Site – Phoenix, Arizona

56TH STREET AND EARLL DRIVE



The site groundwater contaminants of concern are trichloroethene (TCE) and tetrachloroethene (PCE).

ADEQ and Freescale Semiconductor, Inc. (Freescale), the owner of the facility that has been determined to be the source of the contamination, have negotiated an agreement for Freescale to implement an Early Response Action to address the PCE and TCE in the groundwater.

Freescale constructed a groundwater pump and treat system as part of the Early Response Action and began operating it in November 2013. Groundwater is extracted and treated, then discharged into the Grand Canal for nonpotable beneficial reuse as irrigation water under an agreement with Salt River Project. In 2014, ADEQ and Freescale negotiated Consent Orders for operation and maintenance of the groundwater treatment system and for the Remedial Investigation and Feasibility Study reports. The Final Remedial Investigation Report and the Feasibility Study work plan were completed in 2018. Soil gas investigations began in 2018 as part of the Remedial Investigation data gaps. Residential indoor air investigations and a soil gas investigation were completed near the former source area. Indoor air results from homes that elected to participate as well as soil gas results will be part of the Feasibility Study due the summer of 2020.

For more detailed information about the history of the 56th Street & Earll Drive WQARF site, please refer to Appendix A (Site History) of this CIP.



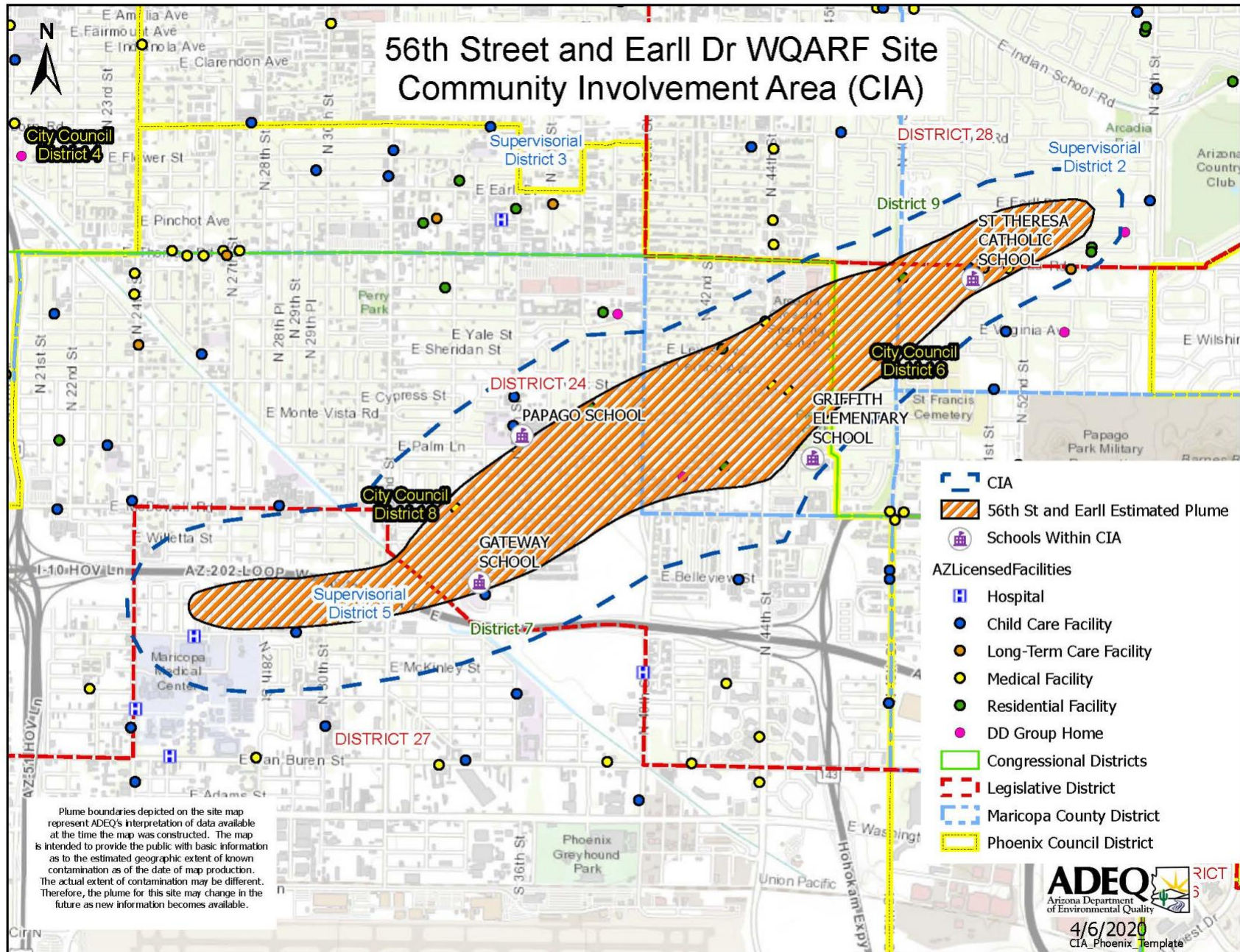
Grand Canal Discharge

Chapter 2 – Community Profile

A. Community Involvement Area

ADEQ has established a community involvement area for each site per A.R.S. § 49-289.02(A) and (B). A community involvement area is established to designate a geographic area to which mass mailings will be delivered. Community involvement area boundaries are determined based on site-specific characteristics such as the affected media (i.e., soil, surface water, or groundwater), exposure routes, proximity to residential areas and public facilities, and level of community interest. The community involvement area may change as new information is received.

The map on the following page illustrates the current community involvement area for the 56th Street & Earll Drive WQARF site.



B. Community Demographics

In 2010, the population of Phoenix, Arizona's most populous city, was 1,445,632 (as reported by the 2010 U.S. Census). The community involvement area boundary for the 56th Street & Earll Drive WQARF site encompasses two zip codes (85008 and 85018) and is estimated to contain approximately 18,220 households. The 56th Street & Earll Drive WQARF sites are located within the boundaries of the City of Phoenix and consist of a mixture of commercial businesses, light industrial businesses, and residential neighborhoods.

According to the 2010 U.S. Census data, the total population for the zip codes encompassed by the community involvement area was 92,210, with an average household size of 2.48 persons. Residents of the area consisted of fewer homeowners (44%) than renters (56%). The median resident age is 33.9, which is younger than the median age for Arizona residents as a whole (35.9).¹

As represented in the Population Groups graph that follows, the 2010 U.S. Census data demonstrates that residents in the 56th Street & Earll Drive WQARF site community involvement area identify themselves as approximately 67.9% White; 17.1% Some Other Race; 6.4% Black or African American; 3.6% Two or More Races; 3.1% American Indian or Alaska Native; 1.8% Asian; and 0.2% Native Hawaiian.² According to the U.S. Census Bureau, people of Hispanic or Latino descent may be of any race. People identifying themselves as Hispanic or Latino within the 56th Street & Earll Drive WQARF site community involvement area comprised 40.1% of the population, which is higher than the 29.6% average Hispanic and Latino population for the state of Arizona. The higher than average Hispanic and Latino population may indicate the need for Spanish translation services, which ADEQ will take into consideration along with community feedback and state guidelines.

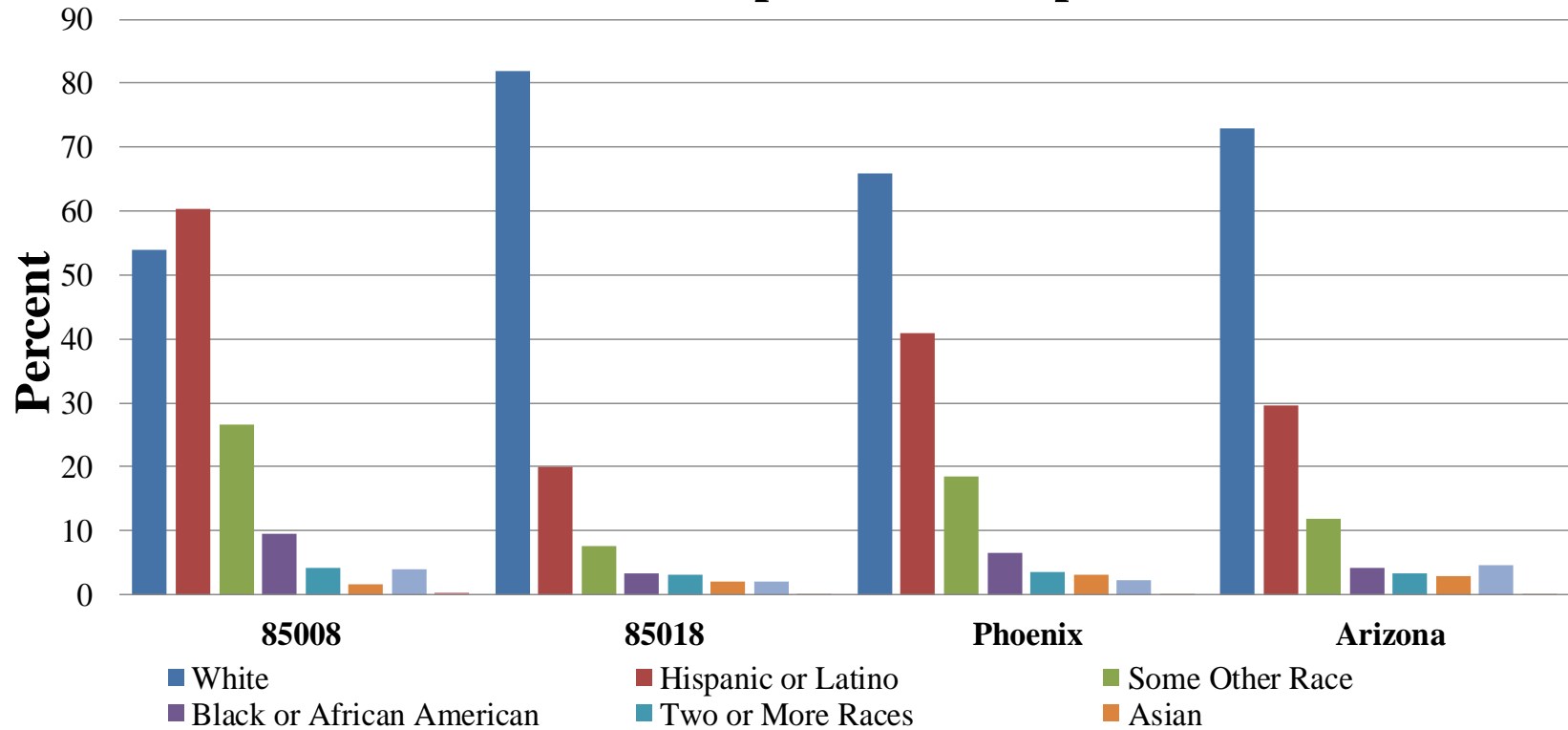
All percentages provided in the following Populations Group chart and the previous two paragraphs are median averages of the 2010 U.S. Census data for the zip codes within the 56th Street & Earll Drive WQARF site community involvement area.

Although U.S. Census data has been chosen as the primary grounds for establishing baseline community demographics, ADEQ is aware of the limitations of using this data. The data is only as accurate as the individuals that provided the information at the time at which the information was collected. ADEQ is aware that some populations may be inadequately represented by U.S. Census data and welcomes additional feedback from the community.

¹ Calculations are an average of the two zip codes.

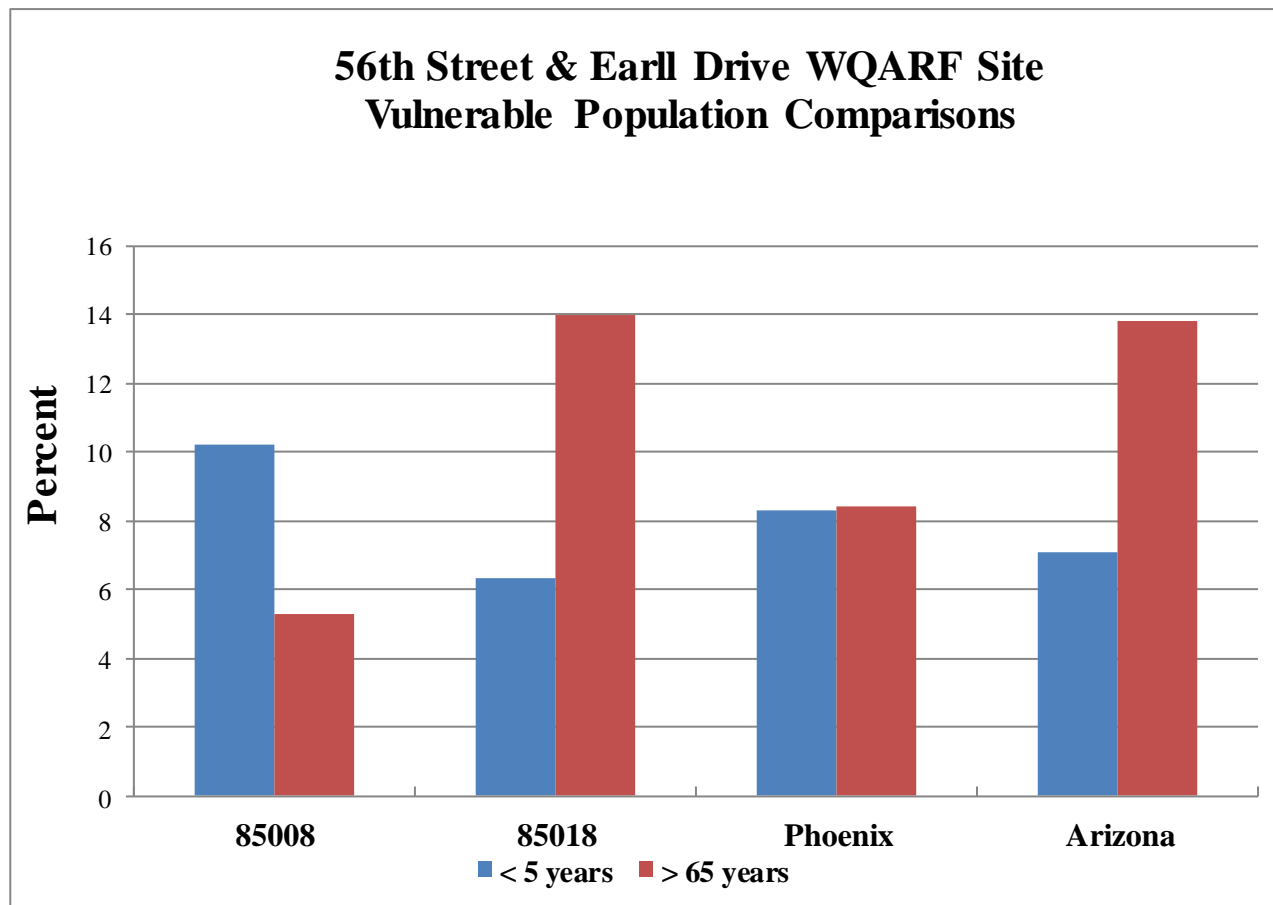
² Percentages are an average of the two zip codes and are rounded to the nearest tenth and thereby do not total 100 percent exactly.

56th Street & Earll Drive WQARF Site Population Groups



Note: Individuals identifying as Hispanic or Latino may be of any race and are already accounted for in

ADEQ also looks at the community as a whole with an emphasis on the percentage of people who are unusually sensitive to contaminants. These people are those who are under the age of 5 or over the age of 65, as well as those with health issues. The Vulnerable Population Comparisons graph that follows is based on 2010 U.S. Census data and presents the percentages of age-sensitive populations within the 56th Street & Earll Drive WQARF site community involvement area.



For further demographic information regarding the community involvement area, please refer to the listing of neighborhood associations, community schools, and vulnerable population centers in Appendix B, and local and state government officials in Appendix C.

Chapter 3 – Community Issues and Concerns

In order to better understand the community and its concerns, ADEQ conducted telephone interviews with community and CAB members who have lived or worked in the area surrounding the 56th Street & Earll Drive WQARF site. The CAB members are listed in Appendix D. The following is a summary of their common concerns involving the environment, health, and ADEQ outreach activities.

A. Environmental and Health Concerns

Interviewees had varying degrees of knowledge about the 56th Street & Earll Drive WQARF site. Nearly half of the interviewees stated that they did not know much about the site, while the remainder of the interviewees were knowledgeable about environmental remediation issues or had served on the CAB and were well informed about the site.

While interviewees were asked about environmental and health concerns, their primary focus centered on the following concerns:

- What are the chemicals of concern? What about polychlorinated biphenyls and boron?
- Can ADEQ maintain effective control of the contamination?
- Are contaminants getting into the drinking water aquifer? Will we have potable water in the future?
- What are the latest sampling results? What are the sampling results near my residence?
- What activities are currently being completed at the site? Are indoor air quality samples being collected?
- What are the potential health problems related to the site?
- Will there be any monetary settlement as a result of the environmental contamination that will go to renters or homeowners?

B. Outreach and Other Concerns

Interviewees provided the following feedback and suggestions on current and future outreach pertaining to the 56th Street & Earll Drive WQARF site:

- Some interviewees felt that the ADEQ mailings did not contain enough information or details about the site, and that the ADEQ website for the 56th Street & Earll Drive WQARF site contained outdated information.
- One interviewee suggested that a disclaimer be placed on the ADEQ WQARF site websites stating that the websites may not contain the complete history of the site, but that additional information can be viewed at the ADEQ Records Center in Phoenix.

- Most interviewees stated that ADEQ has done a good job of answering community questions in a timely manner. However, these interviewees also felt that the majority of the community was unaware of the groundwater contamination.
- Nearly twice as many interviewees preferred postal mail to email as the method of communication between ADEQ and the community.
- Some interviewees felt that public meetings were the best way to keep the general public informed, but they also supported mailings and public notices. One interviewee recommended that at least one public meeting be held each year.
- One interviewee stated that the Spanish-speaking population may be underserved in communication regarding the WQARF site. Another interviewee suggested that the Sky Harbor Homeowners Association may be able to assist in disseminating information for the Spanish-speaking population in the area.
- One interviewee stated that there are many rental properties in the area and there is a high level of resident turnover that may affect communication efforts. Another interviewee stated that residents new to the area likely are not aware of the WQARF site.
- One interviewee stated that providing snacks could increase attendance at CAB meetings. Another interviewee suggested that a summary of the topic addressed by the CAB meeting should be included in the meeting agenda.
- Suggestions for other methods of communication included the following:
 - Planning an education event at local colleges/schools, as many people are unaware of the existence of CAB meetings.
 - Videotaping meetings and making them available online to increase awareness and possibly promote attendance at future meetings.
- One interviewee stated that it was difficult to interest people in the site if they did not think that the site issues could affect them personally. Another interviewee stated that he was not particularly interested in the site and that he just wanted it cleaned up.

C. Response to Community Issues and Concerns

ADEQ uses the information gathered from community interviews, CAB and public meetings, and direct contact to ensure that future outreach activities and materials are able to address community questions and concerns as well as keep the community informed of WQARF site activities. Additionally, community feedback informs ADEQ outreach practices and allows the communication techniques noted in Chapter 4, Section B to be tailored to the specific needs of the community.

Chapter 4 – Community Involvement Action Plan

In addition to providing the framework for the state to investigate and clean up contaminated sites, the WQARF program also requires that ADEQ involve the community in the cleanup process. The following Community Involvement Action Summary table describes the required community involvement activities according to each WQARF phase and illustrates where the 56th Street & Earll Drive site is in the WQARF process at the time of this writing. This summary is followed by a description of the communications vehicles and techniques available for use. Multiple techniques to communicate with and educate the public may be used throughout the process of remediating the WQARF site.

A. Community Involvement Action Summary – Required Activities

The following Community Involvement Action Summary table describes the required community involvement actions for the 56th Street & Earll Drive WQARF site and notes what actions have been completed to date.

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Community Involvement Action Summary				
WQARF Phase	Mandated ADEQ Community Involvement Activity (see Chapter 4, Section B for a detailed description of applied communications techniques described herein)	Statute (A.R.S) and Rule (A.A.C) References	Activity to Dates ³	Complete
Preliminary Investigation	Provide owners and operators a copy of the Draft WQARF Site Registry Report for a 15-day comment period prior to publishing a notice in a newspaper announcing the availability of the Draft WQARF Site Registry Report for a 30-day public comment period.	A.R.S. § 49-287.01(C) A.R.S. § 49-289.03(A)(1)	Mailing to owners and operators, February 2004 Public notice, <i>Arizona Republic</i> , February 3, 2004	✓
WQARF Registry Listing	Following the listing of a site on the WQARF Registry, ADEQ will: <ul style="list-style-type: none"> Establish a preliminary community involvement area (see Chapter 2, Section A) within 90 days of site listing on the WQARF Registry. Provide written notice to the community on hazardous substance contamination in the area, the actual and potential risks and routes of exposure, possible health effects, and the opportunity to join the site mailing list.s Identify ADEQ personnel to contact for further information. 	A.R.S. § 49-289.02	Notice to community and development of a community involvement area, Fall 2004	✓
	Develop a CIP that establishes a CAB, designates a spokesperson, provides for newsletters with current information about the status of remedial actions at the site, establishes a public document repository location, and provides for schedules of CAB meetings and public meetings. Update the CIP at least every 2 years.	A.R.S. § 49-287.03(D) A.R.S. § 49-289.03(B) A.R.S. § 49-289.03(C) A.A.C. R18-16-404(C)(1)(i) A.A.C. R18-16-404(C)(1)(j) A.A.C. R18-16-404(C)(1)(k) A.A.C. R18-16-404(C)(1)(o)	Original CIP, July 2007 Updated CIP, February 2015, March 2019, April 2020	✓
Early Response Action	<p>A work plan shall be prepared for each Early Response Action that will include a description of work to be done, a description of known site conditions, and a plan for conducting the work; a description of community involvement activities for the Early Response Action under R18-16-404; and a schedule.</p> <p>Community involvement activities may include development of a community involvement plan under A.A.C. R18-16-404(C) or conduct community involvement activities appropriate to the scope and schedule of the work performed such as a general public notice to those who may be impacted by fieldwork as indicated in A.A.C. R18-16-404(D)(2).</p> <p>If immediate action is necessary to address a current risk to public health or the environment, to protect a source of water, or to provide a supply of water, the work plan and written rationale may be prepared and the community involvement activities may be conducted after commencement of the Early Response Action.</p>	A.A.C. R18-16-404 A.A.C. R18-16-405(D)(2) A.A.C. R18-16-405(E) A.A.C. R18-16-405(G)	Multiple Early Response Actions, 1993–1996, 2005–2006, and 2009–2014	✓

³ Dates marked with an asterisk are approximate.

Community Involvement Action Summary				
WQARF Phase	Mandated ADEQ Community Involvement Activity (see Chapter 4, Section B for a detailed description of applied communications techniques described herein)	Statute (A.R.S) and Rule (A.A.C) References	Activity to Date ³	Complete
Remedial Investigation ⁴	Provide notice to interested parties announcing the availability of the Remedial Investigation Scope of Work or Work Plan, Fact Sheet, and CIP Outline for review and a 30-day public comment period. Provide notice indicating that any person by agreement with the ADEQ may develop and implement a work plan for the Remedial Investigation and Feasibility Study and solicit information regarding the current and future land and water uses at the site. ⁵ These notices shall also provide an opportunity to request a public meeting.	A.R.S. § 49-287.03 (B) A.R.S. § 49-287.03 (C) A.A.C. R18-16-403(F) A.A.C. R18-16-403(G) A.A.C. R18-16-404(C)(1)(a) A.A.C. R18-16-406(B) A.A.C. R18-16-406(D)	Combined notice, October 11, 2004	✓
	Establish a selection committee to choose CAB members for the site. The selection committee shall consist of the following number of people from each organization: <ul style="list-style-type: none"> • ADEQ: 1 • Potentially Responsible Party: 1 • Local Official : 1 • Local Community: 2 	A.R.S. § 49-289.03(D)	Selection committee, February 2006	✓
	Establish a CAB of between 5 to 20 members that represent a diversified cross section of the community. Within 90-days of appointment by the CAB selection committee, the CAB shall elect co-chairpersons and develop a charter defining operating procedures, membership terms and obligations, goals for developing issues, concerns and opportunities related to quick cleanup of the site, and any other anticipated activities for identifying and improving the public's access and understanding of information regarding the remediation process at the site.	A.R.S. § 49-289.03(C) A.R.S. § 49-289.03 (E) A.R.S. § 49-289.03(F)	CAB established, May 9, 2006	✓
	Publish a combined ⁶ public notice announcing the availability of the Draft Remedial Investigation Report for review and a minimum 30-day public comment period as well as hold a public meeting to solicit Remedial Objectives for the site. The public meeting shall be held not less than 45 calendar days and not more than 90 calendar days after release of the Draft Remedial Investigation Report, unless ADEQ sets a different date for good cause.	A.A.C. R18-16-301(C) A.A.C. R18-16-404(C)(1)(b) A.A.C. R18-16-406(F) A.A.C. R18-16-406(I)(1) A.A.C. R18-16-406(I)(2)	Notice published September 2018 CAB meeting held September 2018	✓

⁴ A potentially responsible party search is conducted concurrently with the Remedial Investigation and Feasibility Study, but does not have mandated community involvement activities.

⁵ Data collected from land and water use studies will be incorporated into the Remedial Investigation and/or Remedial Objectives Report per A.A.C. R18-16-406(D)-(I).

⁶If not combined, separate public notices will be provided for the Draft Remedial Investigation/comment period and the Remedial Objectives solicitation and public meeting.

Community Involvement Action Summary				
WQARF Phase	Mandated ADEQ Community Involvement Activity (see Chapter 4, Section B for a detailed description of applied communications techniques described herein)	Statute (A.R.S) and Rule (A.A.C) References	Activity to Date ³	Complete
Remedial Investigation (continued)	Publish a public notice announcing the availability of the Proposed Remedial Objectives Report for a 30-day public comment period.	A.A.C. R18-16-301(C) A.A.C. R18-16-404(C)(1)(c) A.A.C. R18-16-406(I)(5) A.A.C. R18-16-406(J)	Notice published November 2018	✓
	Publish a public notice of the availability of the Final Remedial Investigation Report, which shall contain the results of site characterization and the Final Remedial Objectives Report. The final Remedial Investigation report shall be accompanied by responsiveness summaries regarding comments, issues and concerns raised in the community involvement process and, if the report is prepared by a person other than ADEQ, copies of the comments received.			
Feasibility Study	Provide notice to interested parties announcing the availability of the Feasibility Study Work Plan. <i>Although not mandated, ADEQ will also provide public notice upon completion of the Feasibility Study.</i>	A.A.C. R18-16-404(C)(1)(d) A.A.C. R18-16-407(B)		
Proposed Remedial Action Plan	Publish a public notice announcing the availability of the Proposed Remedial Action Plan for a 30-day public comment period. Mail the same notice to interested parties. The notice will describe the proposed remedy and its estimated cost and identify where the Proposed Remedial Action Plan, Remedial Investigation, and Feasibility Study Reports may be inspected.	A.R.S. § 49-287.04(B) A.R.S. § 49-289.03(A)(2) A.A.C. R18-16-301(C) A.A.C. R18-16-404(C)(1)(e) A.A.C. R18-16-408(A)		
Record of Decision	Publish a public notice announcing the availability of the Record of Decision and Responsiveness Summary for review.	A.R.S. § 49-287.04(G) A.A.C. R18-16-404(C)(1)(f) A.A.C. R18-16-410		
Implementation of Remedy (Remedial Actions)	Publish a public notice announcing a request for ADEQ to approve remedial actions at the site. The notice will provide the opportunity for a 30-day public comment period.	A.A.C. R18-16-301(C) A.A.C. R18-16-404(C)(1)(h) A.A.C. R18-16-413		
	Provide notice to the public and interested parties of a request for ADEQ to waive a regulatory requirement (permit) to complete remedial actions.	A.R.S. § 49-290 A.A.C. R18-16-404(C)(1)(l)		
	Provide notice to the public that field work conducted to remove contaminants of concern may result in noise, light, odor, dust or other adverse impacts.	A.A.C. R18-16-404(C)(1)(m)		

Community Involvement Action Summary				
WQARF Phase	Mandated ADEQ Community Involvement Activity (see Chapter 4, Section B for a detailed description of applied communications techniques described herein)	Statute (A.R.S) and Rule (A.A.C) References	Activity to Date ³	Complete
Implementation of Remedy (Remedial Actions) (continued)	Provide notice to the public of a request for ADEQ to determine whether each of the Remedial Objectives for a site have been satisfied and will continue to be satisfied. The notice will provide the opportunity for a 30-day public comment period on the request.	A.A.C. R18-16-301(C) A.A.C. R18-16-404(C)(1)(n) A.A.C. R18-16-416(B)		
Operation & Maintenance	Publish a public notice announcing the availability of the Operation & Maintenance Plan for review and a 30-day public comment period. Mail the same notice to interested parties.	A.A.C. R18-16-301(C) A.A.C. R18-16-404(C)(1)(g) A.A.C. R18-16-411(E)	Notice published August 2014	✓
Removal from Registry	<i>Although not mandated by Arizona statute or administrative code, ADEQ may publish a public notice upon the removal of the site from the WQARF Registry.</i>	Not applicable		
Any Phase	Publish a public notice announcing a request to ADEQ for a prospective purchaser agreement. The notice will provide the opportunity for a 30-day public comment period.	A.R.S. § 49-289.03(A)(3) A.A.C. R18-16-301(C)	One prospective purchaser agreement notice was published January 2013.	✓
	Publish a public notice announcing the intention of ADEQ to enter into a settlement agreement with a responsible party. The notice will provide the opportunity for a 30-day public comment period.	A.R.S. § 49-289.03(A)(4) A.A.C. R18-16-301(C)	No settlement agreement requests have been submitted to date.	✓

B. Community Involvement Action Summary – Communication Techniques

As previously described in the Community Involvement Action Summary table, there are required communication activities for every phase of the WQARF process. This section describes the specific activities and resources that ADEQ uses and has available to communicate with, educate, and help the community and stakeholders become actively involved in the 56th Street & Earll Drive WQARF site.

ADEQ will continue to use the following resources to keep stakeholders informed throughout the process:

- 1. CAB** – The CAB has been conducting public meetings about the 56th Street & Earll Drive WQARF site with ADEQ’s assistance since May 2006. CAB members advise ADEQ on appropriate means of delivering site information and provide input regarding content. CAB members also serve as an information resource for their community. CAB meetings are held at a location and date mutually agreed upon by the CAB members and an ADEQ representative. Care is taken to ensure that the location is easily accessible by the public. For a list of current CAB members, see Appendix D.
- 2. Local Print Media** – ADEQ will publish all WQARF milestone public notices in the *Arizona Business Gazette*, which has a search function for public notices (<http://archive.azcentral.com/class/azbjnotices.html>). For a list of other media outlets, see Appendix G.
- 3. U.S. Mail and Email Lists** – ADEQ maintains U.S. Mail and email address lists for the 56th Street & Earll Drive WQARF site. Mailing list addresses are compiled and updated on an ongoing basis through CIP updates, as are return mailers from fact sheets, CABs, open houses, and public meeting attendance lists, and other individual requests. These distribution lists include CAB members, local elected and appointed officials, neighborhood and homeowner association contacts, schools and vulnerable population centers representing/located within the site community involvement area (see Appendices B through D), as well as other interested parties.
- 4. ADEQ Website** – ADEQ’s website provides visitors with three areas of information related to the site and is updated on an ongoing basis:
 - **Calendar Page** – This calendar provides information regarding public meetings (including CAB meetings), notices, and public comment periods (<http://www.azdeq.gov/welcome-adeq>).
 - **Site Information Page** – This page provides detailed site information and access to the online information repository for the site, which includes milestone documents (<http://www.azdeq.gov/node/823>).

5. **ADEQ Notice Boards** – Notice boards are located in ADEQ’s Phoenix and Tucson offices.
6. **Public Meetings** – Public meetings or open houses, beyond the CAB meetings, may be scheduled and conducted as needed and as determined by ADEQ and the CAB (for example, meetings with neighborhood/homeowners associations, schools, or other community groups).
7. **Site Tours** – Tours of the site can be requested and arranged in conjunction with the property owners and in compliance with current laws and regulations by contacting the ADEQ Community Involvement Coordinator.

The following table of Communication Techniques illustrates how these techniques have, and will be used throughout the WQARF process for the 56th Street & Earll Drive WQARF site.

Communication Techniques							
Communications Deliverables			Communications Recipients/Methods				
Type ⁷	Why	When	CAB Members	Interested Parties List	ADEQ Website	Local Print Media	ADEQ Notice Board
Notice	Provide notice of availability of milestone documents, request comments, and solicit input.	Per mandate (see Community Involvement Action Summary table).	✓	✓	✓ (Site and calendar pages)	✓ (<i>Arizona Business Gazette</i>)	✓
CAB Meeting Notice/Agenda	Provide two-way communication about the status of site activities. The notice announces the meeting and provides the agenda.	Variable schedule based on level of site activity as scheduled by CAB and ADEQ, with the exception of the required public meeting for the solicitation of remedial objectives (see Community Involvement Action Summary table).	✓	✓	✓ (Site and calendar pages)	Not applicable	✓
Technical Presentation	Provide current information about site activity or related topics.	At CAB meetings or at specially requested public meetings.	✓	Not applicable	✓ (Site pages)	Not applicable	Not applicable
Technical Milestone Document	Provide current technical information about site investigation/remediation activities (e.g., Remedial Investigation, Feasibility Study, etc.).	According to the WQARF Process as documents are developed and become available.	✓	Not applicable	✓ (Online information repository)	Not applicable	Not applicable
Site Fact Sheet/Newsletter	Provide current information about site activity.	Published at the start of the Remedial Investigation and at specific milestones or other times as deemed appropriate by ADEQ and the CAB.	✓	✓	✓ (Online information repository)	Not applicable	Not applicable
Public Meeting	Provide forum to solicit Remedial Objectives. (Note that this meeting may be conducted in conjunction with a CAB meeting.) Additional public meetings may be used to discuss site activities as determined by level of community interest.	As required/if requested.	✓	✓	✓ (Site and calendar pages)	✓ (<i>Arizona Business Gazette</i>)	✓
Site Tour	Provide walking or driving tour of the site to observe current site conditions and the surrounding community and environment.	If requested, and with cooperation of current property owners.	Contact ADEQ Community Involvement Coordinator.				

⁷ Communications deliverables may be translated into Spanish if deemed necessary or requested.

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C. Other Resources and Contacts

In addition to the designated spokesperson and information repository identified at the beginning of this CIP, the appendices included in this CIP provide additional resources and contact information for the public to use as desired.

- **Appendix A** provides a history of major activities by year at the 56th Street & Earll Drive WQARF site.
- **Appendix B** provides a list of targeted communities in the 56th Street & Earll Drive WQARF site community involvement area. These include neighborhood associations as well as community schools and vulnerable population centers that fall within the community involvement areas.
- **Appendix C** provides a table of local and state elected officials, by ward or district, who represent communities within the community involvement area. Note that some wards or districts may encompass more of the community involvement area than others.
- **Appendix D** provides a table of current 56th Street & Earll Drive WQARF site CAB members.
- **Appendix E** provides a list of media outlets in the area. All public notices for the 56th Street & Earll Drive WQARF site can be found by searching the *Arizona Business Gazette* publication (<http://archive.azcentral.com/class/azbjnotices.html>).
- **Appendix F** provides a list of other related state and local agencies that may be of interest to the public.

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Appendix A – Site History

The following presents a site history in chronological order for the Arizona Department of Environmental Quality (ADEQ) 56th Street & Earll Drive Water Quality Assurance Revolving Fund (WQARF) site.

1951–1982 Motorola, Inc. (Motorola) operated an industrial facility located at the northwest corner of 56th Street & Earll Drive in Phoenix, Arizona, for research, development, and small scale manufacturing operations. In the 1950s and 1960s, the facility was used for manufacturing semiconductors and was later used for manufacturing and assembling electronics equipment, systems, and components. In 1982 the facility was converted for use as office space. During the operation of the facility, solvents and metals were released to the environment.

1983 Motorola began investigating its 56th Street facility. Soil, soil gas, and groundwater investigations were conducted in stages and included the installation of 39 groundwater monitoring wells. An off-site soil gas investigation identified five potential source areas for volatile organic compounds (VOCs).



Monitoring Well Installation

1989 The 56th Street & Earll Drive site was originally investigated as part of the Motorola 52nd Street Superfund Site. However, groundwater data indicated that there were two separate and distinct areas of contamination. Therefore, the 56th Street & Earll Drive WQARF site was disassociated from the larger Motorola 52nd Street Superfund site.

1993–1996 Motorola conducted several Early Response Actions during this 3-year period, including abandoning dry wells, conducting pilot scale bioremediation test s, installing a soil vapor extraction system, and excavating contaminated soil.

1997 Following soil excavation activities and an on-site confirmation soil gas investigation, ADEQ granted Motorola a No Further Action determination for site soils.

2004 The 56th Street & Earll Drive site was placed on the WQARF Registry on June 2, 2004, because of the presence of tetrachloroethene (PCE) and trichloroethene (TCE) in site groundwater at levels that exceeded the Arizona Aquifer Water Quality Standards of 5.0 micrograms per liter ($\mu\text{g/L}$) for these compounds. The eligibility and evaluation score for placement on the WQARF Registry was 40 out of 120.

- 2005 Freescale Semiconductor, Inc. (Freescale), a successor company to Motorola, installed additional monitoring wells during the third quarter to the west and southwest of the contaminant plume to further delineate the extent of groundwater contamination. Following installation and sampling of these wells, an Early Response Action evaluation was conducted.
- 2006 Freescale agreed to implement an Early Response Action evaluation to examine the potential impact of contamination on a downgradient Salt River Project well. The maximum PCE and TCE levels found in the downgradient well were 46 µg/L and 770 µg/L, respectively.
- 2007 Freescale implemented the use of granular activated carbon to remove contaminants from the groundwater prior to discharge to the Grand Canal.
- 2008 Freescale negotiated access rights with landowners adjacent to the Grand Canal for a planned groundwater extraction and treatment system.
- 2009 Freescale prepared a work plan describing the installation and development of two groundwater extraction wells and two groundwater monitoring wells on the north side of the Grand Canal. The four wells comprised the first phase of the Early Response Action to contain and control groundwater contamination in the area.
- 2011–2012 Freescale entered into a Consent Order with ADEQ on April 22, 2011, to design and implement the groundwater containment and control Early Response Action. Freescale collected groundwater samples and water level data from 41 monitoring wells in April and October 2012. Freescale provided monthly reports to ADEQ on the progress of the Early Response Action.
- 2013 Freescale completed construction of the groundwater extraction and treatment system and began operating it in November.
- 2014 Freescale submitted a Site Operation and Maintenance Plan for the Early Response Action A, which ADEQ approved in October after a 30-day public comment period. Freescale agreed to conduct operation and maintenance of the groundwater extraction and treatment system based on a pending agreement with ADEQ. Consent Orders for the operation and maintenance of the groundwater treatment system and the Remedial Investigation and Feasibility Study reports were negotiated between ADEQ and Freescale.



Carbon Vessels for Groundwater Treatment

2015-2020 Freescale Semicondutor became NPX USA Inc. and remains the working party at the site. Additional groundwater monitoring wells were istallated to further characterize the contaminate plume. The Draft Remedial Investigation was made availiable for public comment in 2018. A public meeting was held to recieve comments on the Remedial Investigation and to soliciate Remedial Objectives. The Remedial Investigation was finalized November 2018. The Feasibility Study Work Plan was approved and NPX continues to fill data gaps and perform work in order to complete the Feasibility Study report.

Appendix B – Targeted Communities

A. Neighborhood Associations

The following presents the Phoenix registered neighborhood associations and their respective points of contact in the 56th Street & Earll Drive Water Quality Assurance Revolving Fund (WQARF) site community involvement area:¹

ARCADIA CORNERS NEIGHBORHOOD ASSOCIATION (602) 881-8264
Laura Stover, 4039 East Pinchot Avenue, Phoenix, AZ 85018 arcadiacorners@live.com

ARCADIA OSBORN NEIGHBORHOOD ASSOCIATION Phone number not provided
Crystal DeVelis, P.O. Box 97661 Phoenix, AZ. 85060 aonainfo@gmail.com

BRUNSON-LEE NEIGHBORHOOD ASSOCIATION PARTNERSHIP (602) 686-7267
Mary Moore, 30 West Wiletta Street, Phoenix, AZ 85003 sunhine2u@outlook.com

GREATER ORANGEDALE NEIGHBORHOOD ASSOCIATION (602) 952-0611
Christina Eichelkraut, 2606 North 44th Street #103, Phoenix, AZ 85005 greaterorangedalephx@gmail.com

PAPAGO VISTA NEIGHBORHOOD ASSOCIATION (602) 220-9140
Michael Rodgers, 3612 East Palm Lane, Phoenix, AZ 85008 papagovistana@yahoo.com

PIERCE UNIFIED NEIGHBORHOOD ASSOCIATION (602) 840-3881
Ginnie Ann Sumner, 4739 East Lewis Avenue, Phoenix, AZ 8500 gasumner@cox.net

RANCHO VENTURA NEIGHBORHOOD ASSOCIATION (602) 667-5568
Dave Jackson, 4247 East Windsor Avenue, Phoenix, AZ 85008 rvnaphoenix@yahoo.com

¹ The City of Phoenix Neighborhood Associations website did not provide address information for all neighborhood association contact.

B. Community Schools

The 56th Street & Earll Drive WQARF site community involvement area includes the Balsz School District and Creighton School District. The following list presents the community schools in the 56th Street & Earll Drive WQARF site community involvement area:

BALSZ SCHOOL DISTRICT

4825 East Roosevelt Street, Phoenix, AZ 85008 (602) 629-6400

CREIGHTON SCHOOL DISTRICT

2702 East Flower Street, Phoenix, AZ 85016 (602) 381-6000

GATEWAY SCHOOL

1100 North 35th Street, Phoenix, AZ 85008 (602) 381-4665

GRIFFITH ELEMENTARY SCHOOL

4505 East Palm Lane, Phoenix, AZ 85008 (602) 629-6700

PAPAGO SCHOOL

2013 North 36th Street, Phoenix, AZ 85008 (602) 381-6100

ST. THERESA CATHOLIC SCHOOL

5001 East Thomas Road, Phoenix, AZ 85018 (602) 840-0010

C. Vulnerable Population Centers

The following presents a list of vulnerable population centers, including places such as child care and assisted living facilities, in the 56th Street & Earll Drive WQARF site community involvement area:

ANGEL CARE HOME ASSISTED LIVING

2231 North 38th Street, Phoenix, AZ 85008 (602) 244-1218

COUNTRY MANOR ASSISTED LIVING CENTER

2815 North 48th Street, Phoenix, AZ 85008 (602) 840-5940

THE CROSSROADS, INC. - ARCADIA

5116 East Thomas Road, Phoenix, AZ 85018 (602) 281-6574

ESTER'S CARE CENTER

2942 East Roosevelt Street, Phoenix, AZ 85008 (602) 275-9267

C. Vulnerable Population Centers (Continued)

GUARDIAN ANGELS

1838 North 39th Street, Phoenix, AZ 85008

(602) 920-2211

MAGICAL STAR PRESCHOOL

2232 North 36th Street, Phoenix, AZ 85008

(602) 267-1539

NEW CREATIONS DAY CARE & LEARNING CENTER

2094 East Roosevelt Street, Phoenix, AZ 85008

(602) 273-7949

PHOENIX CHRISTIAN DAY CARE

2030 North 36th Street, Phoenix, AZ 85008

(602) 273-0889

ST. THERESA LITTLE FLOWER PRESCHOOL

5001 East Thomas Road, Phoenix, AZ 85018

(602) 840-0010

SOUTHWEST HEAD START @ GATEWAY

1100 North 35th Street, Phoenix, AZ 85008

(602) 266-5976

SOUTHWEST HEAD START @ PAPAGO SCHOOL

2013 North 36th Street, Phoenix, AZ 85008

(602) 275-6847

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Appendix C – Local and State Elected Officials

As of the publication of this community involvement plan, the community involvement area for the 56th Street & Earll Drive Water Quality Assurance Revolving Fund site falls under Phoenix City Council Districts 6 and 8; Maricopa County Supervisorial Districts 1, 2, 3, and 5; and Arizona Legislative Districts 24, 27, and 28.

CITY Officials	COUNTY Supervisors	STATE Representatives	STATE Senators
Phoenix City Hall 200 W. Washington St. Phoenix, AZ 85003 (602) 262-7111	Maricopa County 301 W. Jefferson St. 10th Floor Phoenix, AZ 85003 (602) 506-3415	Arizona House of Representatives Capitol Complex 1700 W. Washington St. Phoenix, AZ 85007 (602) 926-4221	Arizona State Senate Capitol Complex 1700 W. Washington St. Phoenix, AZ 85007 (602) 926-3559
Mayor City of Phoenix Kate Gallego (602) 262-7111 mayor.gallego@phoenix.gov	County Supervisor District 1 Jack Sellers (602) 506-1776 sellersj@mail.maricopa.gov	Representative District 24 Jennifer Longdon Room # 126 (602) 926-3264 jlongdon@azleg.gov	Senator District 24 Lela Alston Room # 311 (602) 926-5829 lalston@azleg.gov
Phoenix City Council Member District 6 Sal DiCiccio (602) 262-7491 council.district.6@phoenix.gov	County Supervisor District 2 Steve Chucris (602) 506-7431 chucris@mail.maricopa.gov	Representative District 24 Amish Shah Room # 123 (602) 926-3280 ashah@azleg.gov	Senator District 27 Rebecca Rios Room # 315 (602) 926-3073 rrios@azleg.gov
Phoenix City Council Member District 8 Carlos Garcia (602) 262-7493 council.district.8@phoenix.gov	County Supervisor District 3 Bill Gates (602) 506-7562 bgates@mail.maricopa.gov	Representative District 27 Reginald Bolding Jr. Room # 322 (602) 926-3132 rbolding@azleg.gov	Senator District 28 Kate Brophy McGee Room # 302 (602) 926-4486 kbrophymcgee@azleg.gov
	County Supervisor District 5 Steve Gallardo (602) 506-7092 gallardos001@mail.maricopa.gov	Representative District 27 Diego Rodriguez Room # 326 (602) 926-3285 drodriguez@azleg.gov	
		Representative District 28 Kelli Butler Room # 119 (602) 926-5156 kbutler@azleg.gov	

CITY Officials	COUNTY Supervisors	STATE Representatives	STATE Senators
		Representative District 28 Aaron Lieberman Room # 120 (602) 926-3300 alieberman@azleg.gov	

Appendix D – Community Advisory Board Members

The following table presents a list of the 56th Street & Earll Drive Water Quality Assurance Revolving Fund (WQARF) site Community Advisory Board (CAB) members as of April 2020.

56th Street & Earll Drive WQARF Site CAB Co-Chairs		
John James (602) 321-2332 sullyjs@mac.com		Ginnie Ann Sumner (602) 999-7668 gasumner@cox.net
CAB Members		
Alain Barnes (602) 955-7082 abarnes41@cox.net		Jenn McCall (480) 814-4587 jenn.mccall@npx.com

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Appendix E – Media Outlets

The following list presents Phoenix media outlets that may be used by the public and Community Advisory Board members to promote information on the 56th Street & Earll Drive Water Quality Assurance Revolving Fund site. The *Arizona Business Gazette* is the external media outlet that the Arizona Department of Environmental Quality will use to publish all public notices related to the site.

NEWSPAPERS AND MAGAZINES

THE ARCADIA NEWS (602) 840-6379
3850 East Indian School Road, Phoenix, AZ 85018

THE ARIZONA BUSINESS GAZETTE (602) 444-8000
200 East Van Buren, Phoenix, AZ 85004

THE ARIZONA REPUBLIC (602) 444-8000
200 East Van Buren, Phoenix, AZ 85004

EAST VALLEY TRIBUNE (602) 898-6500
1620 West Fountainhead Parkway, Suite 219, Tempe, AZ 85282

LA VOZ (602) 444-3802
200 East Van Buren, Phoenix, AZ 85004

NORTH CENTRAL NEWS (602) 277-2742
1645 East Missouri Avenue, Suite 450, Phoenix, AZ 85016

RADIO

BONNEVILLE INTERNATIONAL CORPORATION (602) 274-6200
(KMVP-FM, KTAR-FM, KTAR-AM)
7740 North 16th Street, Suite 200, Phoenix, AZ 85020

ENTERCOM COMMUNICATIONS CORP. (602) 452-1000
(KMLE, KOOL-FM, KALV-FM)
840 North Central Avenue, Phoenix, AZ 85014

RADIO (CONTINUED)

iHEARTMEDIA (602) 374-6000
(KESZ, KFYI, KGME, KNIX-FM, KMXF, KTZR, KXEW, KYOT-FM, KZZP)
4686 East Van Buren Street, Suite 400, Phoenix, AZ 85008

MARICOPA COUNTY COMMUNITY COLLEGE DISTRICT (480) 834-5627
(KBAQ, KJZZ)
2323 West 14th Street, Tempe, AZ 85281

HUBBARD RADIO PHOENIX (602) 629-8660
(KAZG, KDKB, KDUS, KSLX-FM, KUPD)
1100 North 52nd Street, Phoenix, AZ 85008

RIVIERA BROADCASTING CO. (602) 648-9800
(KEXX, KKFR, KMVA, KOAI)
4745 North 7th Street, Suite 410, Phoenix, AZ 85014

SIERRA H. BROADCASTING, INC. (480) 994-9100
(KAJM, KNJR)
1710 East Indian School Road, Suite 205, Phoenix, AZ 85016

UNIVISION RADIO LICENSE CORPORATION (602) 308-7900
(KHOT-FM, KNOV-FM, KKMR, KOMR, KQMR)
4745 North 7th Street, Suite 140, Phoenix, AZ 85014

TELEVISION

KAET CHANNEL 8 (PBS) (602) 496-8888
555 North Central Avenue, Suite 500, Phoenix, AZ 85004

KNXV CHANNEL 15 (ABC) (602) 273-1500
515 North 44th Street, Phoenix, AZ 85008

KPHO CHANNEL 5 (CBS) (602) 207-3333
5555 North 7th Avenue, Phoenix, AZ 85013

KPNX CHANNEL 12 (NBC) (602) 444-1212
200 East Van Buren Street, Phoenix, AZ 85004

KSAZ CHANNEL 10 (FOX) (602) 257-1234
511 West Adams Street, Phoenix, AZ 85003

KTAZ CHANNEL 39 (Telemundo) (602) 648-3900
4625 South 33rd Place, Phoenix, AZ 85040

KTVW CHANNEL 33 (Univision) (602) 243-3333
6006 South 30th Street, Phoenix, AZ 85042

Appendix F – Related Agencies and Contact Information

The following list presents additional resources that may be used by the public and Community Advisory Board members to address concerns or questions related to the 56th Street & Earll Drive Water Quality Assurance Revolving Fund site.

STATE OF ARIZONA

DEPARTMENT OF AGRICULTURE

1688 West Adams Street
Phoenix, AZ 85007
Phone: (602) 542-4373

DEPARTMENT OF HEALTH SERVICES

150 North 18th Avenue
Phoenix, AZ 85007
Phone: (602) 542-1025

DEPARTMENT OF WATER RESOURCES

GROUNDWATER PERMITTING AND WELLS SECTION

1110 West Washington Street Suite 310
Phoenix, AZ 85007
Phone: (602) 771-8527

CITY OF PHOENIX

HOUSING DEPARTMENT

830 East Jefferson Street
Phoenix, AZ 85034
Phone: (602) 534-1974

WATER SERVICES DEPARTMENT

305 West Washington Street, #200
Phoenix, AZ 85003
Phone: (602) 262-6251

PUBLIC WORKS DEPARTMENT

Garbage and Recycling
200 West Washington Street, 7th Floor
Phoenix, AZ 85003
Phone: (602) 262-7251

OTHER

AGENCY FOR TOXIC SUBSTANCES AND DISEASE REGISTRY

Western Branch – Region 9
75 Hawthorne Street, Suite 9410, M/S:HHS-1
San Francisco, CA 94105
Phone: (800) 232-4636

REAL ESTATE SELLER DISCLOSURES

2910 North 44th Street, Suite 110
Phoenix, AZ 85018
Phone: (602) 771-7799

https://www.aaronline.com/wp-content/uploads/2017/10/Residential-Sellers-Property-Disclosure-Statement-SPDS_REV_01Oct2017.pdf

Acronyms and Glossary of Terms

Aquifer: An underground rock formation composed of such materials as sand, soil, or gravel that can store groundwater and supply it to wells and springs. In aquifers, groundwater occurs in sufficient quantities to be used for drinking water, irrigation, and other purposes.

Aquifer Water Quality Standards (AWQS): State of Arizona maximum levels for contaminants that apply to groundwater in aquifers designated for drinking water use. For example, the AWQS level for tetrachloroethene (PCE) is 5 micrograms per liter (µg/L).

Arizona Administrative Code (A.A.C.): The A.A.C. is where the official rules of the State of Arizona are published. The *Code* is the official compilation of rules that govern state agencies, boards, and commissions.

Arizona Department of Environmental Quality (ADEQ): ADEQ is the executive agency of the Arizona State Government mandated to enforce and administer the State's environmental laws and regulations.

Arizona Revised Statutes (A.R.S.): State laws adopted by the Arizona State Legislature.

Cleanup: Actions taken that deal with a release or threat of a release of hazardous substances that could adversely affect public health and/or the environment. The word “cleanup” is sometimes used interchangeably with the terms remedial action, removal action, response action, remedy, remediation, or corrective action.

Community Advisory Board (CAB): A diverse group of community members interested in or affected by the presence of a WQARF site. By statute, ADEQ is required to form a CAB for each WQARF Registry site where ADEQ is initiating a Remedial Investigation. ADEQ seeks the CAB's input in the decision-making process and works with them from the onset of the Remedial Investigation/Feasibility Study process until the requirements of the Record of Decision have been fulfilled.

Community Involvement Area: The mailing area of residences and businesses used in the notification for public meetings and other written notices regarding a site.

Community Involvement Coordinator: The ADEQ employee responsible for ensuring that all statutes and rules related to the involvement of the public and public outreach at WQARF sites are upheld and complied with by ADEQ. Community Involvement Coordinators manage and coordinate the work of CABs for WQARF sites.

Community Involvement Plan (CIP): A document that identifies techniques used by ADEQ and the U.S. Environmental Protection Agency to communicate effectively with the public during the cleanup process at a specific site. The CIP describes the site history, nature and history of community involvement, and concerns expressed during community interviews. In addition, the plan outlines methodologies and timing for continued interaction between the regulatory agencies and the public at the site.

Contamination: Any hazardous or regulated substance released into the environment.

Contaminant: Any physical, chemical, biological, or radiological substance or matter present in any media at concentrations that may result in adverse effects on air, water, or soil. A harmful or hazardous matter introduced into the environment that is not normally found there, or not naturally occurring

Early Response Action (ERA): Refers to a remedial action performed prior to the final remedy, and often prior to the Remedial Investigation. An Early Response Action addresses current risks to public health, welfare, and the environment; protects or provides a supply of water; addresses sources of contamination; or controls or contains contamination where such actions are expected to reduce the scope or cost of the remedy needed at the site. Also referred to as an Interim Remedial Action.

Feasibility Study (FS): A process to identify a reference remedy and alternative remedies that appear to be capable of achieving the Remedial Objectives for the site. It is often done as part of a two-phase investigation in conjunction with a Remedial Investigation.

Granular Activated Carbon (GAC): Treatment process used to remove dissolved contaminants from water by absorption.

Groundwater: Water located beneath the ground surface in soil pore spaces and in the fractures of geologic formations. A formation of rock or soil is called an aquifer when it can yield a usable quantity of water.

Hazardous Substance: Any material that, because of its quantity, concentration, physical or chemical characteristics, poses a significant present or potential hazard to human health and safety or to the environment.

Information Repository: The location where a collection of documents about a specific project is stored. Information on certain WQARF and Superfund sites may be available at ADEQ offices and libraries throughout the state.

Monitoring Wells (Monitor Wells): Wells installed for the purpose of collecting samples such as groundwater and soil gas. Analytical results from samples are used to characterize the extent of contamination, the direction of groundwater flow, and the types and quantities of contaminants present in the groundwater.

Operation and Maintenance (O&M): 1. Activities conducted after a WQARF/Superfund site action is completed to ensure that the action is effective. 2. Actions taken after construction to ensure that facilities constructed to treat wastewater will be properly operated and maintained to achieve normative efficiency levels and prescribed effluent limitations in an optimum manner. 3. Ongoing asbestos management plan in a school or other public building, including regular inspections, various methods of maintaining asbestos in place, and removal when necessary.

Plume: A well-defined area of contamination in groundwater, soil, or the air often used to describe the dispersion of contamination in soil and/or groundwater.

Potentially Responsible Parties (PRPs): Those parties (individuals, corporations) identified by state or federal authorities as potentially liable for cleanup costs at a contaminated site.

Preliminary Investigation (PI): The process of collecting and reviewing available information about a known or suspected hazardous waste site or release.

Proposed Remedial Action Plan (PRAP): A document that reviews the cleanup alternatives presented in the site Feasibility Study and identifies ADEQ's preferred alternative. Selection of a preferred alternative is not a closed-end commitment to use that alternative; rather, it is a way for the agency to indicate, based on experience and expertise, which alternative is the most likely course of action. ADEQ must actively solicit public review of and comment on all the alternatives under consideration.

Public Comment Period: A period during which the public can formally review and comment on various documents and ADEQ actions.

Record of Decision (ROD): A legal document that announces and explains the cleanup methods ADEQ will use at a Superfund/WQARF site. The Record of Decision is based on information and technical analysis generated during the Remedial Investigation and Feasibility Study, and on consideration of comments received during the public comment record for the Proposed Remedial Action Plan.

Remedial Action (RA): Any action taken to investigate, monitor, assess and evaluate the release or threat of release of hazardous substances or contaminants to the environment. It may also refer to the actual "cleanup" of the environment by various removal, treatment, monitored remediation, or corrective actions. The term cleanup is sometimes used interchangeably with the terms remedial action, removal action, response action, remedy, remediation, or corrective action.

Remedial Investigation (RI): Establishes the nature and extent of the contamination and the sources; identifies current and potential impacts to public health, welfare, and the environment; identifies current and reasonable foreseeable uses of land and waters of the state; and obtains and evaluates any information necessary for identification and comparison of alternative Remedial Actions.

Remedial Objective (RO): Established remedial goals for the current and reasonably foreseeable uses of lands and waters of the state that have been or are threatened to be affected by a release of hazardous substance.

Remediation: Cleanup or other methods used to remove or contain a toxic spill or hazardous materials.

Remedy: Cleanup method chosen for a site.

Responsible Party: An individual or company (e.g., an owner, operator, transporter, or generator of hazardous waste) that is responsible for the contamination problems at a Superfund/WQARF site. Whenever possible, responsible parties are required to clean up hazardous waste sites they have contaminated.

Responsiveness Summary: A summary of oral and written comments (and ADEQ responses to those comments) received during the public comment period.

Soil Vapor Extraction (SVE): Soil vapor extraction removes contaminant vapors from below ground for treatment above ground. Soil vapor extraction removes vapors from the soil above the water table by applying a vacuum to pull the vapors out. The method is used for chemicals that evaporate easily, such as those found in solvents and gasoline.

Superfund: The program operated under the legislative authority of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the Superfund Amendments and Reauthorization Act that funds and carries out solid waste emergency and long-term removal and remedial activities. These activities include establishing the National Priorities List, investigating sites for inclusion on the list, determining their priority, and conducting and/or supervising cleanup and other remedial actions. It provides for the cleanup of hazardous substances released into the environment, regardless of fault. The term Superfund also is used to refer to cleanup programs designed and conducted under CERCLA and its subsequent amendments.

Tetrachloroethene or Tetrachloroethylene or Perchloroethene (PCE): A clear, colorless, liquid with a chloroform or sweet odor and a low boiling point; a solvent used for dry-cleaning; degreasing and drying metals and other solids; dissolving waxes, greases, oils, fats, and gums, and in other industrial applications. PCE is a potential occupational carcinogen. Evaporation of PCE increases as temperature increases.

Trichloroethene or Trichloroethylene (TCE): A colorless liquid used as a solvent, metal degreasing agent, and in other industrial applications.

Volatile Organic Compounds (VOC): A large group of carbon-containing compounds that are easily dissolved into water, soil, or the atmosphere and evaporate readily at room temperature. Examples of VOCs include PCE, TCE, benzene, toluene, ethylbenzene, and xylene. These contaminants are typically generated from metal degreasing, printed circuit board cleaning, gasoline, and wood preserving processes.

Water Quality Assurance Revolving Fund (WQARF): Also known as the State Superfund, WQARF is the program and funding used to address hazardous substance releases within the state that are not covered by other specific programs.

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